

## ABSTRACT OF THE DISCLOSURE

In mammals, the vomeronasal organ, which detects pheromones, resides in a blind-ended pouch within the septum of the nose. Vomeronasal organ-derived signals bypass higher cognitive centers and are processed directly in regions of the amygdala and hypothalamus, which have been implicated in the regulation of innate behavior, reproductive physiology, and other neuroendocrine responses. *Zvn2R1* encodes a human vomeronasal receptor.